

AMENDMENTS

Please amend the above-referenced application as follows:

IN THE CLAIMS:

Please amend the claims as follows.

1 1. (Four Times Amended.) A method for remote control of a testing
2 test and measurement device connected to a device under test, the method comprising
3 the steps of:
4 providing an analysis tool kit at a customer test site, the customer test site
5 having a test and measurement device coupled to a device under test;
6 ~~connecting the device under test to the testing device;~~
7 communicatively coupling the analysis tool kit to the test and measurement
8 device;
9 ~~connecting a remote controlling device to the testing device;~~
10 ~~connecting a communication link to the remote controlling device;~~
11 providing a remotely-located test analysis center configured to establish a
12 communication session with the analysis tool kit in response to an operator request
13 generated from the customer site;
14 ~~directing a video camera on the testing device connections to the device under~~
15 ~~test;~~
16 ~~establishing a connection between said remote controlling device and a remote~~
17 ~~controller on said communication link, wherein said remote controlling device~~
18 ~~initiates said connection;~~
19 transmitting test and measurement device identification data via the analysis
20 tool kit to the remotely-located test analysis center;
21 transmitting device under test data via the analysis tool kit to said remote
22 ~~controller using said connection~~ the remotely-located test analysis center; and
23 ~~controlling said testing device using input from said remote controller;~~
24 configuring the remotely-located test analysis center in response to the
25 ~~establishing a model of the testing device by electronically obtaining model~~
26 ~~information from the device under test~~ identification data and the ~~testing test and~~

27 ~~measurement device identification data using the remote controlling device; and~~
28 ~~transmitting an image of the testing device connections and the model~~
29 ~~information to the remote controller for analysis.~~

1 2. (Canceled.)

1 3. (Twice Amended.) The method of claim 1, further comprising the ~~step~~
2 ~~steps of:~~

3 ~~initializing said remote controller to control said remote controlling device~~
4 ~~using said model information~~

5 ~~directing a video camera on test and measurement device connections to the~~
6 ~~device under test; and~~

7 ~~transmitting an image of the test and measurement device connections to the~~
8 ~~device under test to the remotely-located test analysis center.~~

1 4. (Once Amended.) The method of claim 1, ~~wherein said controlling~~
2 ~~said testing device step further comprises comprising the steps of:~~

3 ~~controlling the test and measurement device from the remotely-located test~~
4 ~~analysis center via the analysis tool kit submitting instructions to said remote~~

5 ~~controller; and~~

6 ~~forwarding those instructions device under test data to the remote controlling~~
7 ~~device remotely-located test analysis center.~~

1 5. (Once Amended.) The method of claim 1, ~~wherein said forwarding~~
2 ~~instructions to the remote controlling device step further comprises comprising the~~
3 ~~step steps of:~~

4 ~~forwarding said instructions to said testing device directing the video camera~~
5 ~~on the test and measurement device; and~~

6 ~~transmitting an image of the test and measurement device to the remotely-~~
7 ~~located test analysis center.~~

1 6. (Once Amended.) The method of claim 1, ~~wherein said~~
2 ~~transmitting device under test data to said remote controller step~~ further comprises
3 comprising the step of:
4 ~~transmitting video data from said camera to said remote controller using the~~
5 remotely-located test analysis center to instruct an operator located at the customer
6 site.

1 7. (Four Times Amended.) A remote test and measurement system
2 controlling apparatus for remote observation and control of a testing test and
3 measurement device connected to a device under test, said ~~remote controlling~~
4 apparatus test and measurement system comprising:
5 an analysis tool kit comprising:
6 a first computing device;
7 an image sensor, a test and measurement device interface, and a
8 modem coupled to the first computing device, wherein the test and measurement
9 device interface is further coupled to the test and measurement device;
10 a first network coupled to the analysis tool kit via the modem; and
11 a test analysis center coupled to the first network.
12 ~~a connection interface between said testing device and said remote controlling~~
13 apparatus;
14 ~~a first programmable logic for controlling the testing device and the device~~
15 under test;
16 ~~a video camera to provide video images of the testing device and the device~~
17 under test;
18 ~~a modem to transmit the video images across a network to a remote controller;~~
19 ~~a third programmable logic to establish a model of the testing device by~~
20 electronically obtaining model information from the device under test and the testing
21 device; and
22 ~~a transceiver for transmitting an image of the testing device connections and~~
23 the model information to the remote controller for analysis, wherein said remote
24 controlling apparatus initiates a connection over which said video images and model
25 information are transmitted.

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1 8. (Once Amended.) The apparatus test and measurement system of
2 claim 7, further comprising:
3 a ~~second programmable logic for providing status data from the testing device~~
4 ~~to the remote controller~~ wherein the analysis tool further comprises a local area
5 network hub coupled between the computer and the test and measurement device
6 interface.

1 9. (Canceled.)

1 10. (Once Amended.) The apparatus test and measurement system of
2 claim 7, further comprising:
3 a remotely-located test analysis center having a second computing device
4 coupled to the first network ~~wherein said first programmable logic further receives~~
5 ~~control instructions from the remote controller and transmits the control instruction to~~
6 ~~the testing device.~~

1 11. (Four Times Amended.) A remote test and measurement system
2 controlling apparatus for remote observation and control of a testing test and
3 measurement device connected to a device under test, said ~~remote controlling~~
4 apparatus test and measurement system comprising:

5 means for coupling an analysis tool kit to a test and measurement device
6 located at a customer site;

7 means for monitoring a test connection between the device under test and the
8 test and measurement device;

9 means for coupling the analysis tool kit to a first network;

10 means for coupling a computing device at a remote analysis center to the first
11 network;

12 means for communicating an operator request from the customer site to the
13 remote analysis center; and

14 means for configuring the remote analysis center responsive to device under
15 test identification data and test and measurement device identification data

16 means for connecting a remote controlling device to the testing device;

17 means for connecting a communication link to the remote controlling device;

18 means for directing a video camera on the testing device connections to the
19 device under test;
20 means for establishing a connection between said remote controlling device to
21 a remote controller on said communication link, wherein said remote controlling
22 device initiates said connection;
23 means for transmitting device under test data to said remote controller using
24 said connection;
25 means for controlling said testing device by said remote controller;
26 means for establishing a model of the testing device by electronically
27 obtaining model information from the device under test and the testing device using
28 the remote controlling device; and
29 means for transmitting an image of the testing device connections and the
30 model information to the remote controller for analysis.

1 12. (Canceled.)

1 13. (Once Amended.) The test and measurement system apparatus of
2 claim 11, further comprising:
3 means for providing status data from the testing test and measurement device
4 to the remote controller analysis center.

1 14. (Once Amended.) The test and measurement system apparatus of
2 claim 11, ~~wherein said means for controlling~~ further comprising:
3 means for ~~receiving control instructions from the remote controller~~ controlling
4 the test and measurement device via the remote analysis center.

1 15. (Once Amended.) The test and measurement system apparatus of
2 claim 14, ~~means for controlling further comprising wherein the test and measurement~~
3 device is at least one of the following devices an oscilloscope, a logic analyzer, and a
4 network analyzer ~~means for transmitting the control instruction to the testing device.~~

1 16. (Newly Added.) The test and measurement system of claim 10,
2 wherein the remotely-located test analysis center comprises a first telephonic device
3 coupled a second telephonic device via a second network.

1 17. (Newly Added.) The test and measurement system of claim 16,
2 wherein the second network is selected from the group consisting of the public
3 switched telephone network and a cellular communications network.

1 18. (Newly Added.) The test and measurement system of claim 10,
2 wherein the remotely-located test analysis center is configured in response to an
3 operator request originating from the customer site.

1 19. (Newly Added.) The test and measurement system of claim 10,
2 wherein the remotely-located test analysis center is configured in response to device
3 under test identification data and test and measurement device identification data.

1 20. (Newly Added.) The test and measurement system of claim 10,
2 wherein the first network comprises at least a portion of one of the public switched
3 telephone network, an integrated services digital network, and a wide area network.

1 21. (Newly Added.) A test and measurement system comprising:
2 a computing device;
3 an image sensor, a test and measurement device interface, and a modem
4 coupled to the computing device, wherein the test and measurement device interface is
5 further coupled to a logic analyzer which is coupled to a device under test at a
6 customer site;
7 a first network coupled to the computing device via the modem;
8 a test analysis center coupled to the first network and located remotely from
9 the customer site, the test analysis center configured to control the logic analyzer; and
10 a transceiver for transmitting an image of at least one of a device under test
11 connection, a device under test, and the logic analyzer to the test analysis center.

1 22. (Newly Added.) The test and measurement system of claim 21,
2 wherein the test analysis center is configured in response to an operator request
3 originating from the customer site.

1 23. (Newly Added.) The test and measurement system of claim 21,
2 wherein the test analysis center is configured in response to device under test
3 identification data.

1 24. (Newly Added.) The test and measurement system of claim 21,
2 wherein the test analysis center is configured in response to logic analyzer device
3 identification data.

1 25. (Newly Added.) The test and measurement system of claim 21,
2 wherein the first network comprises at least a portion of one of the public-switched
3 telephone network, an integrated-services digital network, and a wide-area network.
